

Status Update: 2020 Census Data Products and Stakeholder Engagement Plans

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National Advisory Committee on Racial, Ethnic, and Other Populations – Fall 2021 Virtual Meeting
November 4-5, 2021

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Background

- 2020 Census Apportionment and Redistricting data have been released
- The timeline for the development and release of the Demographic and Housing Characteristics File (DHC) was impacted by splitting the development of the Disclosure Avoidance System (DAS) for the Redistricting data from the DAS for the DHC
- The timelines for the DHC and the Detailed DHC include both making decisions about demographic and geographic detail and the development and tuning of the DAS
- Use cases and data accuracy will be considered in decisions about the demographic and geographic detail included in the DHC and Detailed DHC
- Consistency between the Redistricting and DHC data continues to be included in the design of the DAS
- Even though both approaches will be based on differential privacy, the DHC and Detailed DHC will be protected using different sets of algorithms
- The 2020 Census Data Product Planning Crosswalk provides information on the tables currently planned for inclusion in the DHC and Detailed DHC

Potential Changes Under Consideration for the DHC File

- Limit the DHC tables to Census Tracts and above
- Produce the protected DHC tables directly without producing the underlying protected microdata
- Design of Detailed DHC already does not include the production of microdata
- Revisit the timing of the release of the Demographic Profile relative to the DHC and the contents of the Demographic Profile

Implications and Benefits of Producing the Protected DHC Tables Directly Without the Underlying Protected Microdata

- ✚ Potentially increased accuracy in the DHC tables
- ✚ May allow for release of DHC data sooner
 - Demonstration products would be in the form of tables instead of privacy-protected microdata files
- Potentially less/no consistency within DHC tables
- Potentially less/no consistency between Redistricting data and the DHC tables
- May impact the availability of the DHC data in other data products such as a PUMS file and Special Tabulations

Redistricting File (P.L. 94-171)

Public Law 94-171 directs the Census Bureau to provide data to the governors and legislative leadership in each of the 50 states for redistricting purposes. This product was the first file released that includes demographic and housing characteristics about detailed geographic areas

- **Subjects include:**

- Voting age
- Race
- Hispanic or Latino origin
- Occupancy status
- Group quarters population by major GQ type

- **Lowest Level of Geography:** Census Block

- **Released August 12**

Demographic Profile

This product will provide critical demographic and housing characteristics about local communities from selected DHC tables in a streamlined, easy to use format as soon after the release of the Redistricting product as possible

- **Subjects will include:**

- 5-year age groups
- Sex
- Race
- Hispanic or Latino origin
- Household type
- Relationship to householder
- Group quarters population
- Housing occupancy
- Housing tenure

- **Lowest Level of Geography:** Place/Minor Civil Division

Demographic and Housing Characteristics File (DHC)

The DHC will include many of the demographic and housing tables previously included in Summary File 1

- **Subjects will include:**

- Age
 - Sex
 - Race
 - Hispanic or Latino origin
 - Household type
 - Family type
 - Relationship to householder
 - Some subjects provided for major OMB race/ethnicity groups
 - Group quarters population
 - Housing occupancy
 - Housing tenure
- **Lowest Level of Geography:** Various; with many subjects proposed to be available at the Census Block level
 - The DHC will not include tables that provide counts by detailed race, Hispanic origin, tribes, and population counts by household/family types.

Detailed Demographic and Housing Characteristics File (Detailed DHC)

The Detailed DHC will include some tables iterated by detailed race, ethnicity, and American Indian and Alaska Native (AIAN) tribes and villages from 2010 Summary File 2 and AIAN Summary File. It will also include some complex person and household join tables from 2010 Summary File 1.

- **Subjects will include:**

- Total population*
 - Sex by age for selected age categories*
 - Household type*
 - Housing tenure*
 - Average household and family size
 - Population by family type and tenure
 - Population by household type and relationship
 - Own children by family type
 - Average household size by tenure
- **Geography:** Various with many tables proposed at the County level and for American Indian, Alaska Native, and Native Hawaiian (AIANNH) Areas

External Engagement on the Demographic and Housing Characteristics (DHC) File

- Engagements will help us make informed decisions about DHC File production
- Engagement plan includes a 3-pronged approach:
 - Engagement/Education (where are we going with differential privacy and the DHC, how do we get there)
 - Feedback/Listening (how DHC tables are used, for what purpose, can DAS tuning support)
 - Demonstration/Implementation (are data fit-for-use, what are the confidentiality-accuracy tradeoffs)
- Demonstration data using 2010 Census will be released to enable public to assess accuracy and confidentiality protection of DHC tables
- Demonstration data release and stakeholder engagement will be transparent and timely
 - At least two rounds of demonstration data releases
 - Minimum of 30 days for review and feedback period
 - Clear feedback guidelines

Notional Timeline for DHC Development

Now – Fall 2021

- Release Updated 2020 Census Data Products Crosswalk File
- Collect feedback on potential changes to DHC crosswalk (e.g., reduced number of block level tables)
- Collect final feedback on the design of DHC tables
- Confirm DHC use cases
- Complete DAS development/feasibility testing (experiments) based on DHC specifications and accuracy targets
- Conduct internal review of initial DAS implementation
- Reassess timeline and communicate status

Winter 2021/2022

- Create and release first set of demonstration data
- Collect feedback and data fit-for-use assessments
- Assess feedback, incorporate changes to DAS implementation, and conduct internal review
- Reassess timeline and communicate status

Notional Timeline for DHC Development Cont.

Spring 2022

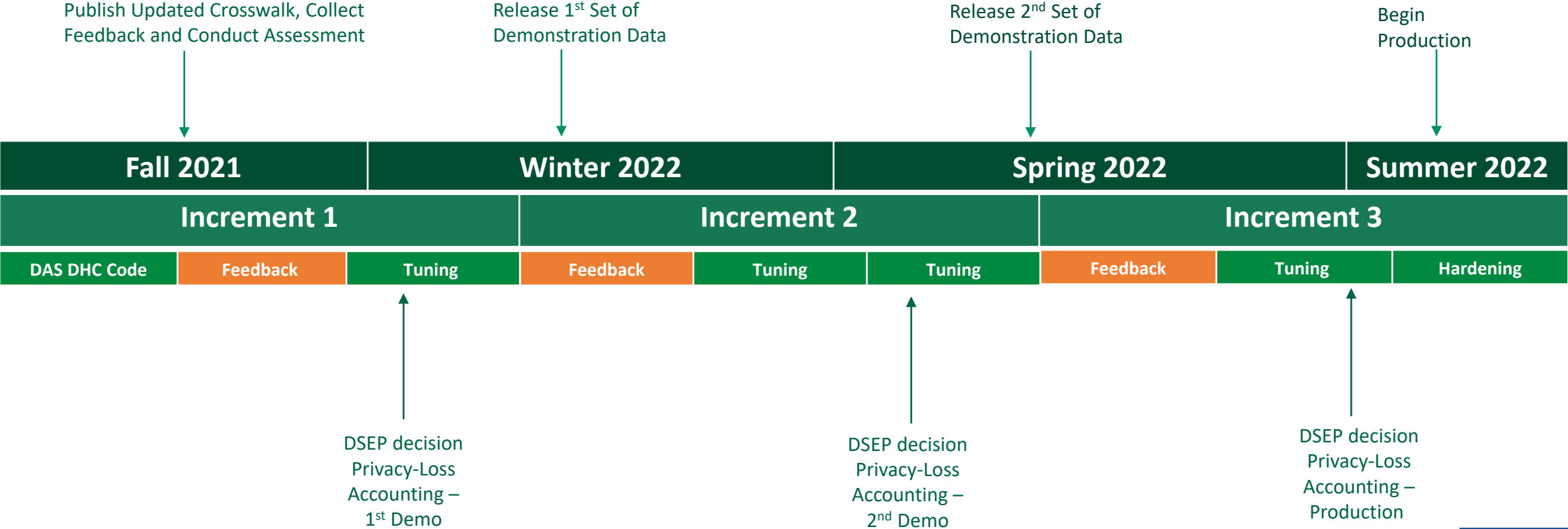
- Create and release second set of demonstration data
- Conduct Public Workshop
- Collect feedback and assessments
- Assess feedback and determine completion of development

Summer 2022

- DSEP sets final parameters for DHC
- DHC production begins

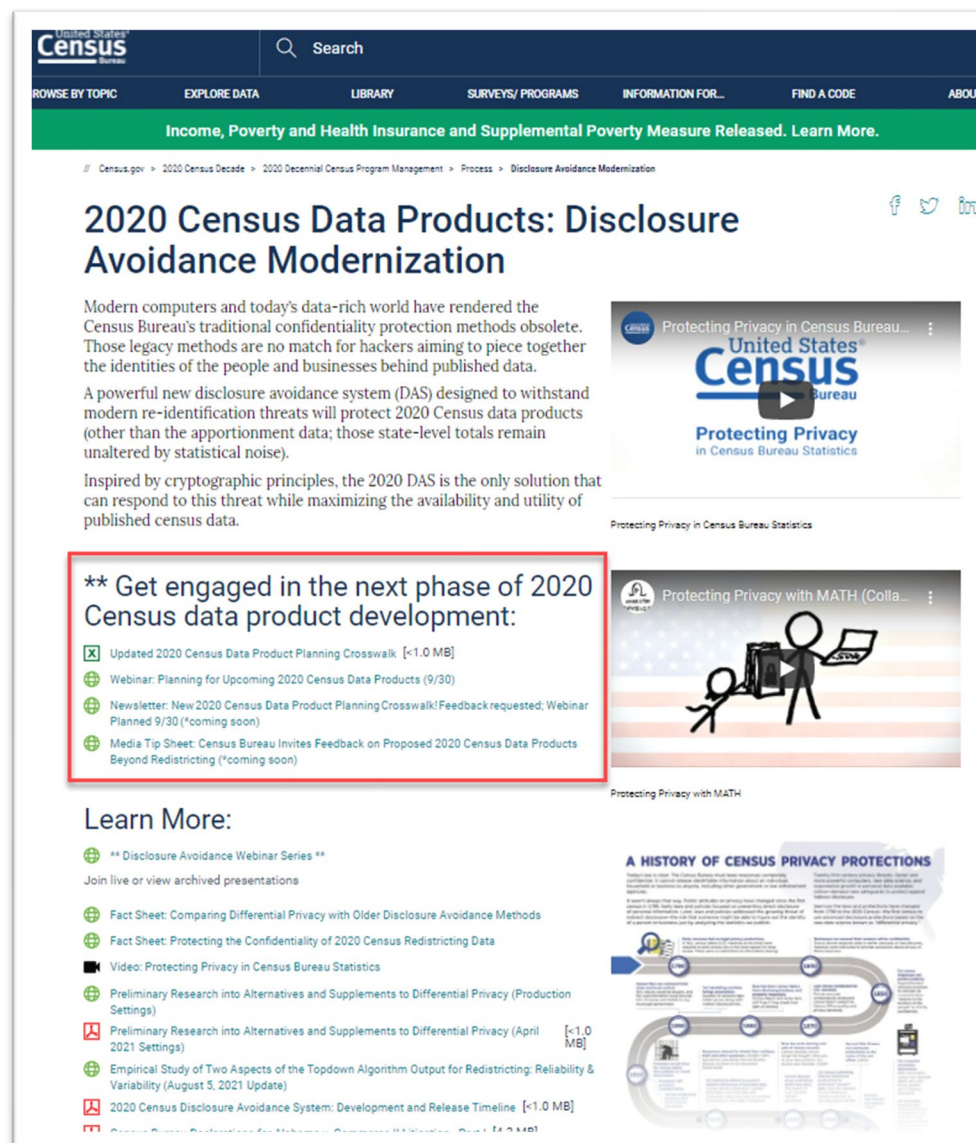
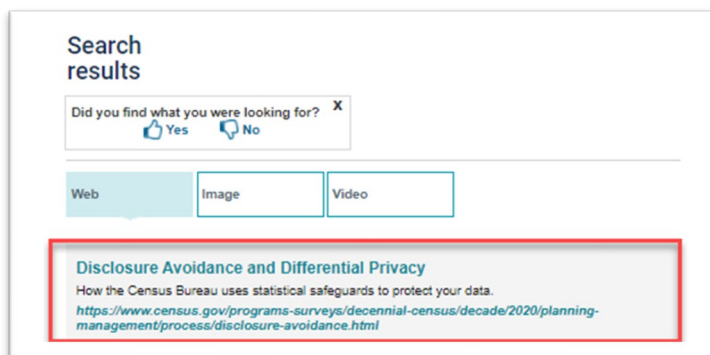
Notional Timeline for DHC Development

Cont.



2020 Census Data Product Planning Crosswalk

Search “disclosure avoidance”
to find this page.



Comments Received on the 2020 Census Data Product Planning Crosswalk

- **360** comments received by the October 22 due date for DHC tables
- At least **175** of the comments included specific use cases and data needs
- We have received comments that document legal or strong community needs for Census data at low geographic levels
- Initial analysis of the comments show that the most common needs include:
 - Age data by race for developing estimates/projections and planning purposes
 - Housing counts by characteristics of the household or family for assistance programs and emergency planning
- We are in the process of reviewing the comments received
- We are still requesting comments on the Detailed DHC tables